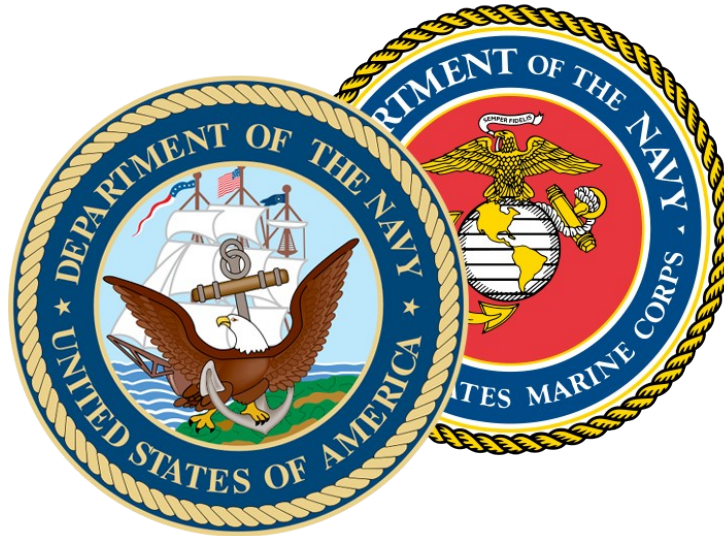


# USING IUID DATA FOR ENHANCED DECISION-MAKING CAPABILITIES





# Agenda

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- Risks
  - Budget
  - Schedule
  - Technical
  
- Rewards
  - Situational Awareness
  - Rapid Decision Making
  - Reduction in Total Ownership Costs



# Risks

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- Budget
  - Unfunded request
    - Money has to be found somewhere to perform the tasks
- Schedule
  - Timeline is already defined
    - Quickly running out of time
- Technical
  - Daunting task to complete
    - Number of items and number of locations
    - How do you mark them

Bottom Line	Treat it like any other project
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# Risk Mitigation

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- Performed Business Case Analysis
  - Provided several options
    - Gave us anticipated Return on Investment
      - Program Office paid up front based on anticipated ROI
    - Allowed us to make a “make or buy” decision
      - Possibly greater ROI
        - » Unanticipated benefit, much cheaper labels
- We didn't have schedule problems
- Did have moving target syndrome
  - IUID Registry kept changing
    - What it was going to collect
    - What it was going to do
- Technical
  - The 80% solution became the 100% solution
    - Picking the right hardware and software solved most of our problems



# MTRS Overall Population

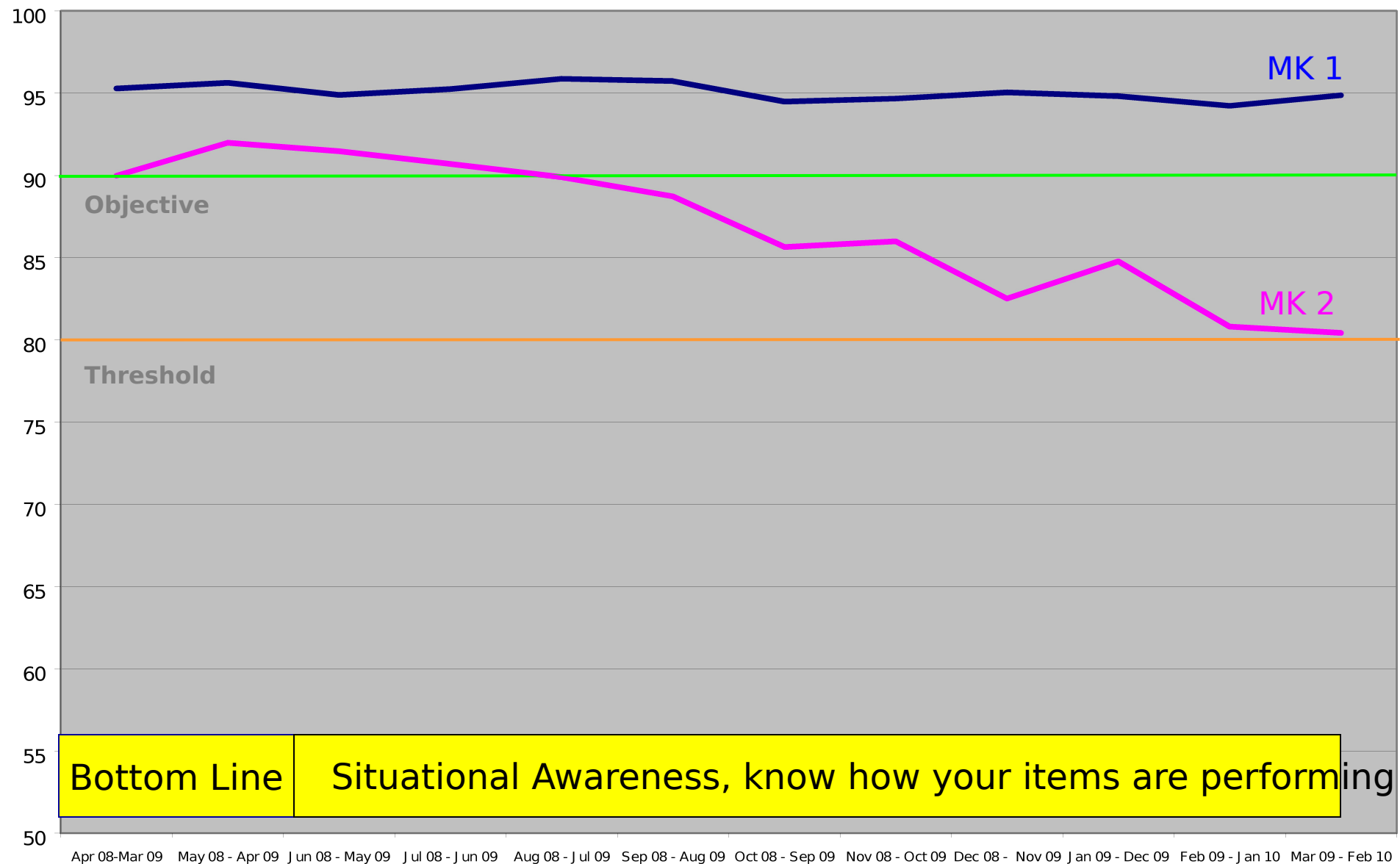
MTRS MK 1 MOD 0	ERT TO	ERT Speicher	J RRF Iraq	J RRF Afghan	ERT Leatherneck	ERT Kandahar	Rest of World	Total
<b>SYSTEMS</b>	<b>4</b>	<b>35</b>	<b>64</b>	<b>37</b>	<b>21</b>	<b>4</b>	<b>481</b>	<b>646</b>
<b>DLRP</b>								
Chassis (vehicle)	3	6	11	4	3	3	16	46
Manipulator (arm)	3	11	36	13	10	6	65	144
PCC (OCS Assembly)	4	6	19	10	3	0	15	57
Microcharger (Battery Charger )	7	1	11	4	2	0	18	24
FO Cable Spooler Assembly	2	5	18	7	6	0	10	19
<b>DLRP Subtotal</b>	<b>19</b>	<b>29</b>	<b>95</b>	<b>38</b>	<b>24</b>	<b>9</b>	<b>76</b>	<b>290</b>
MTRS MK 2 MOD 0	ERT TO	ERT Speicher	J RRF Iraq	J RRF Afghan	ERT Leatherneck	ERT Kandahar	Rest of World	Total
<b>SYSTEMS</b>	<b>2</b>	<b>4</b>	<b>10</b>	<b>19</b>	<b>28</b>	<b>2</b>	<b>829</b>	<b>892</b>
<b>DLRP</b>								
Communications Box Assembly	2	4	7	8	10	6	86	136
Electronics Box Assembly	4	9	19	2	11	7	91	158
Arm Assembly	2	13	23	6	17	8	143	231
OCS Assembly	4	6	3	19	11	7	97	161
Battery Charger Assembly	7	15	58	14	41	7	23	68
FO Cable Spooler Assembly	8	4	40	22	51	0	28	67
Pan and Tilt Mast Assembly	3	12	15	11	6	6	105	164
780 Zoom Assembly (Camera)	9	43	54	27	13	11	122	136
Fire Box Assembly	3	13	19	7	18	0	4	67
Vehicle Battery	43	42	154	47	14	7	26	350
<b>DLRP Subtotal</b>	<b>85</b>	<b>161</b>	<b>392</b>	<b>163</b>	<b>192</b>	<b>59</b>	<b>1136</b>	<b>1538</b>
MTRS MK 2 W/ Radio Upgrade	ERT TO	ERT Speicher	J RRF Iraq	J RRF Afghan	ERT Leatherneck	ERT Kandahar	Rest of World	Total
<b>SYSTEMS</b>	<b>9</b>	<b>49</b>	<b>96</b>	<b>67</b>	<b>92</b>	<b>11</b>	<b>72</b>	<b>396</b>
<b>DLRP</b>								
Communications Box Assembly	2	8	13	2	1	3	12	41
OCS Assembly	2	8	11	2	1	0	14	38
Amplifier Assembly	1	8	17	1	5	0	8	40
<b>DLRP Subtotal</b>	<b>5</b>	<b>24</b>	<b>41</b>	<b>5</b>	<b>7</b>	<b>3</b>	<b>34</b>	<b>119</b>
	<b>ERT TO</b>	<b>ERT Speicher</b>	<b>J RRF Iraq</b>	<b>J RRF Afghan</b>	<b>ERT Leatherneck</b>	<b>ERT Kandahar</b>	<b>Rest of World</b>	<b>Total</b>
<b>Total Systems Delivered</b>	<b>15</b>	<b>88</b>	<b>170</b>	<b>123</b>	<b>141</b>	<b>17</b>	<b>1382</b>	<b>1934</b>
<b>Total DLRP Delivered</b>	<b>109</b>	<b>214</b>	<b>528</b>	<b>206</b>	<b>223</b>	<b>71</b>	<b>1246</b>	<b>1947</b>

Bottom Line

Situational Awareness, know what you have and where it is



# A<sub>0</sub> Trends



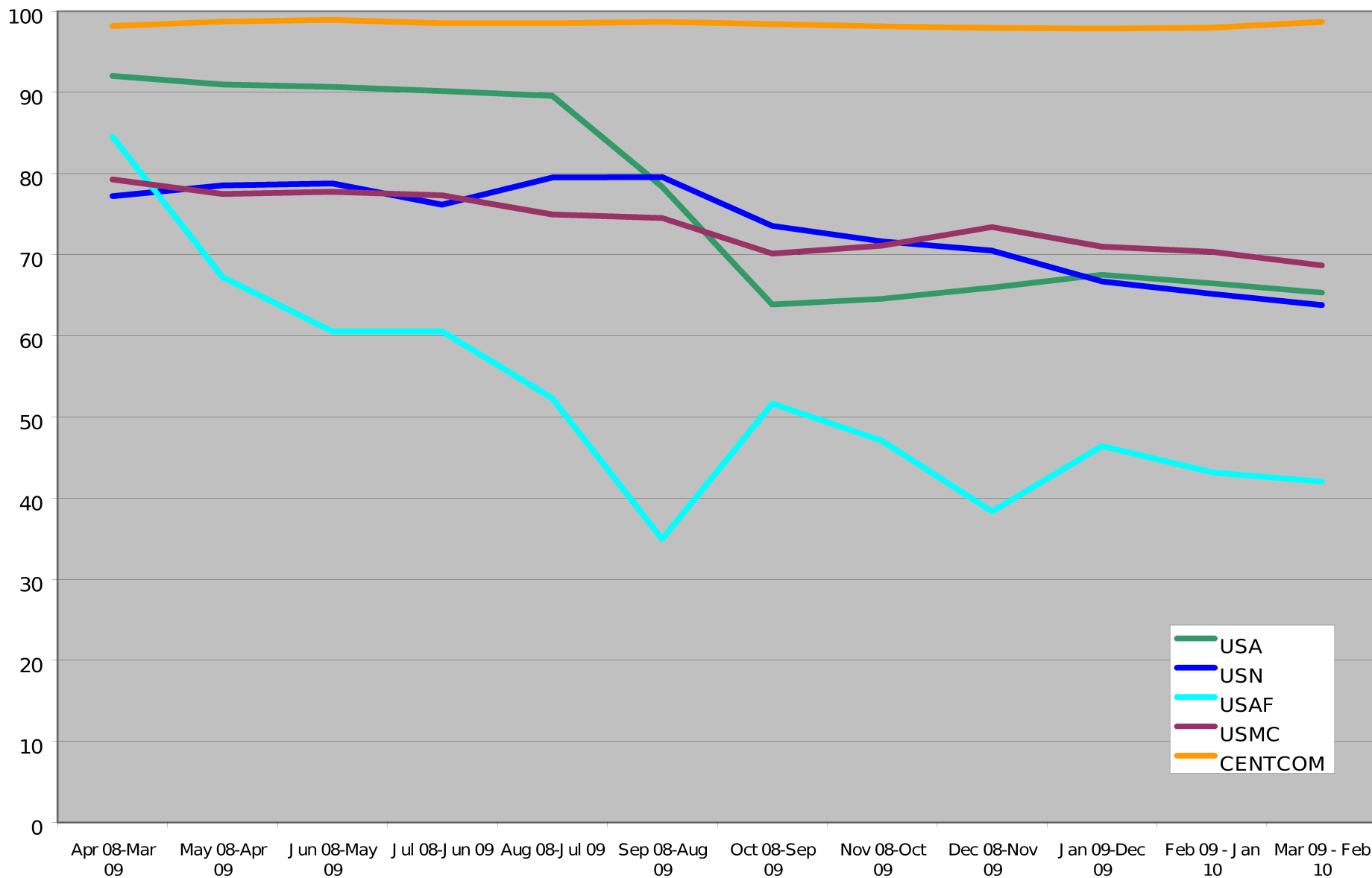
Bottom Line

Situational Awareness, know how your items are performing





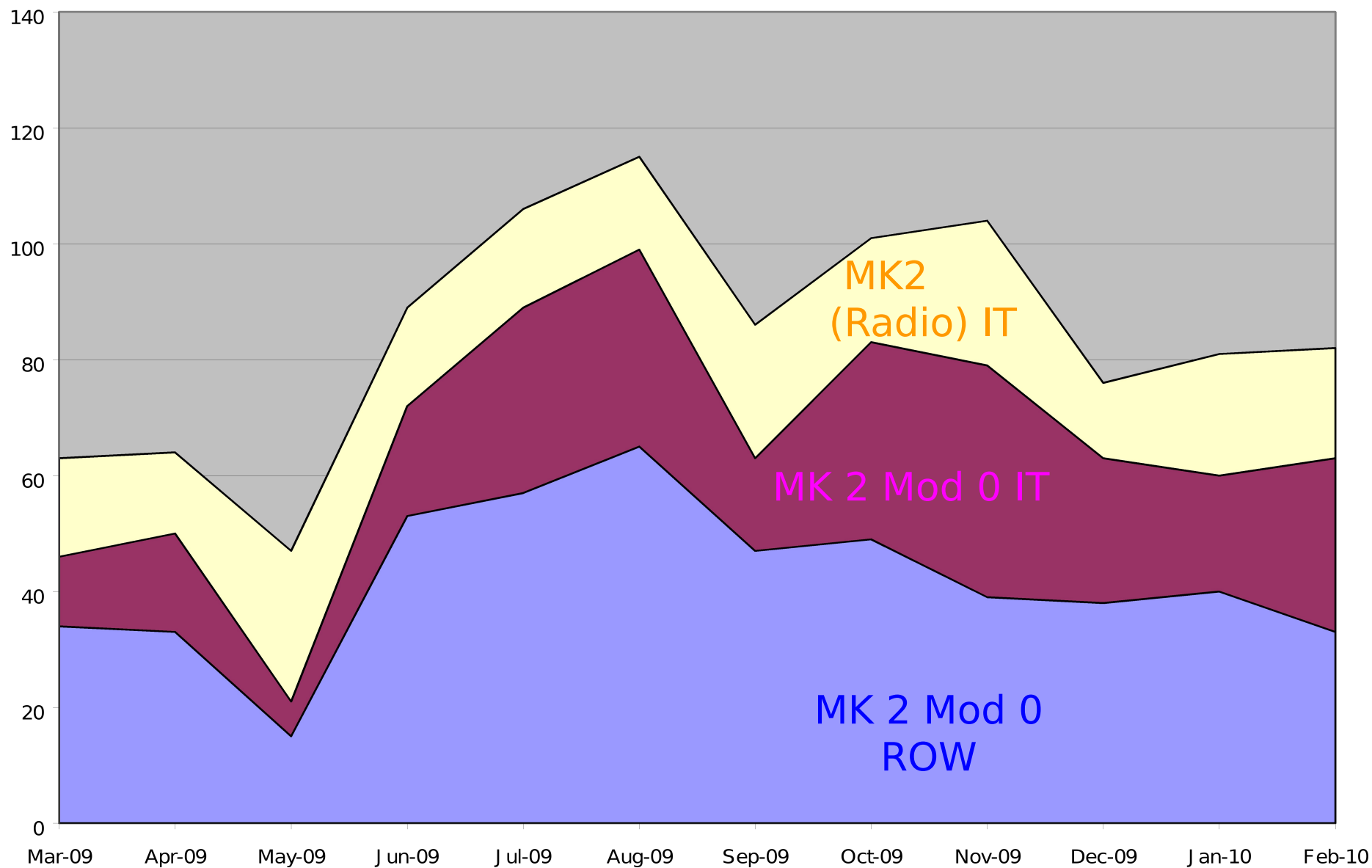
# MK2 A<sub>0</sub> by Service





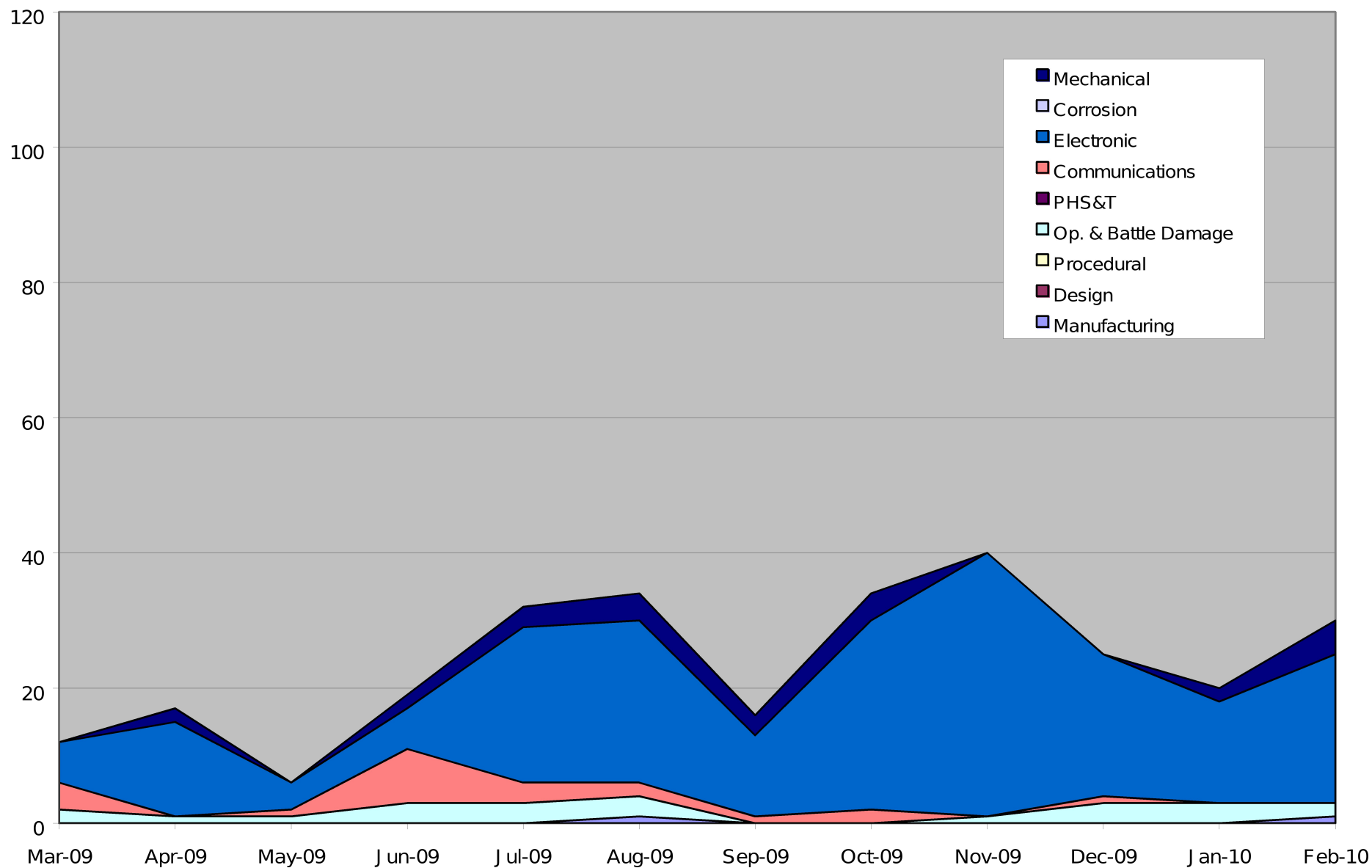


# Total MK 2 Failures



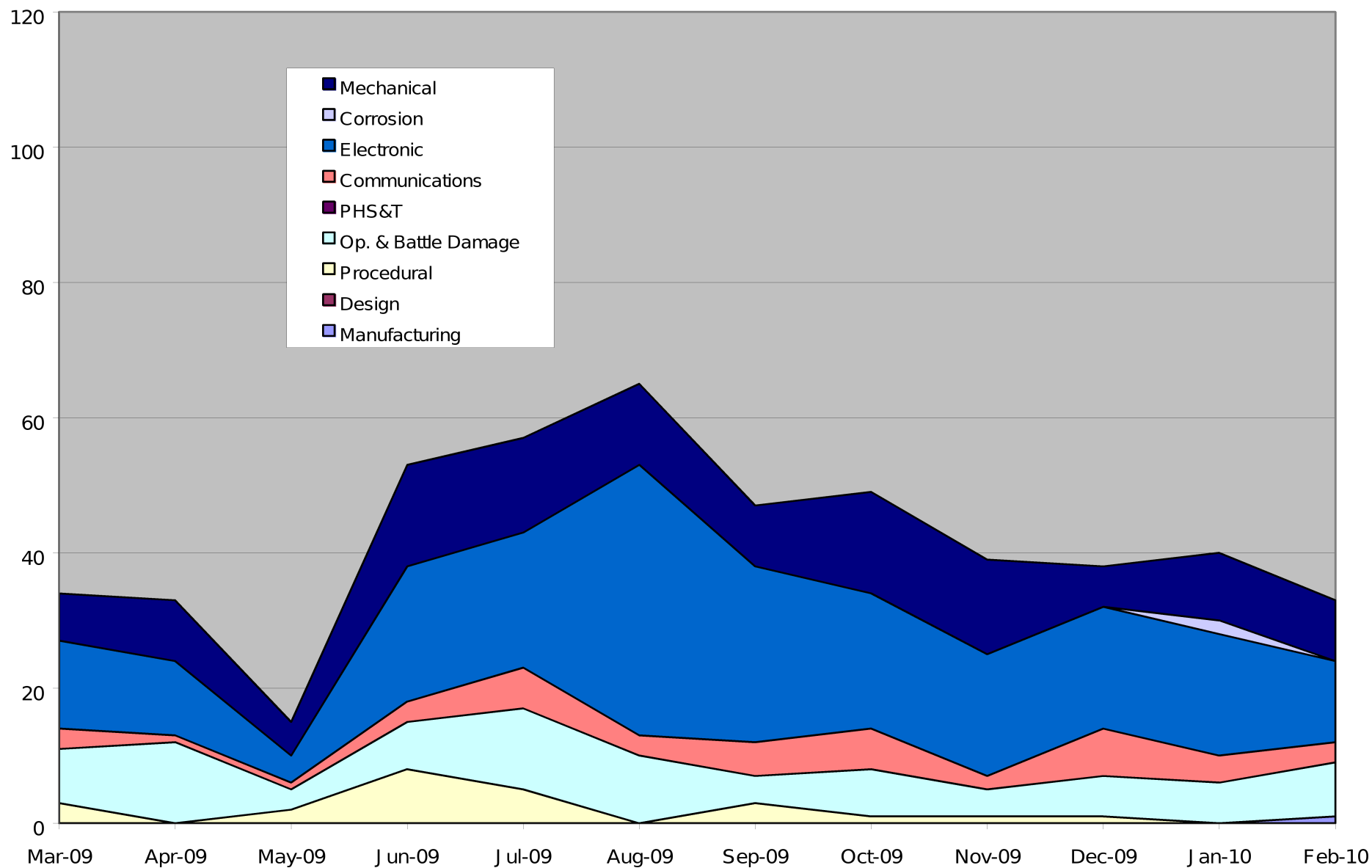


# MK 2 In-Theater Failures





# MK 2 Rest of World Failures



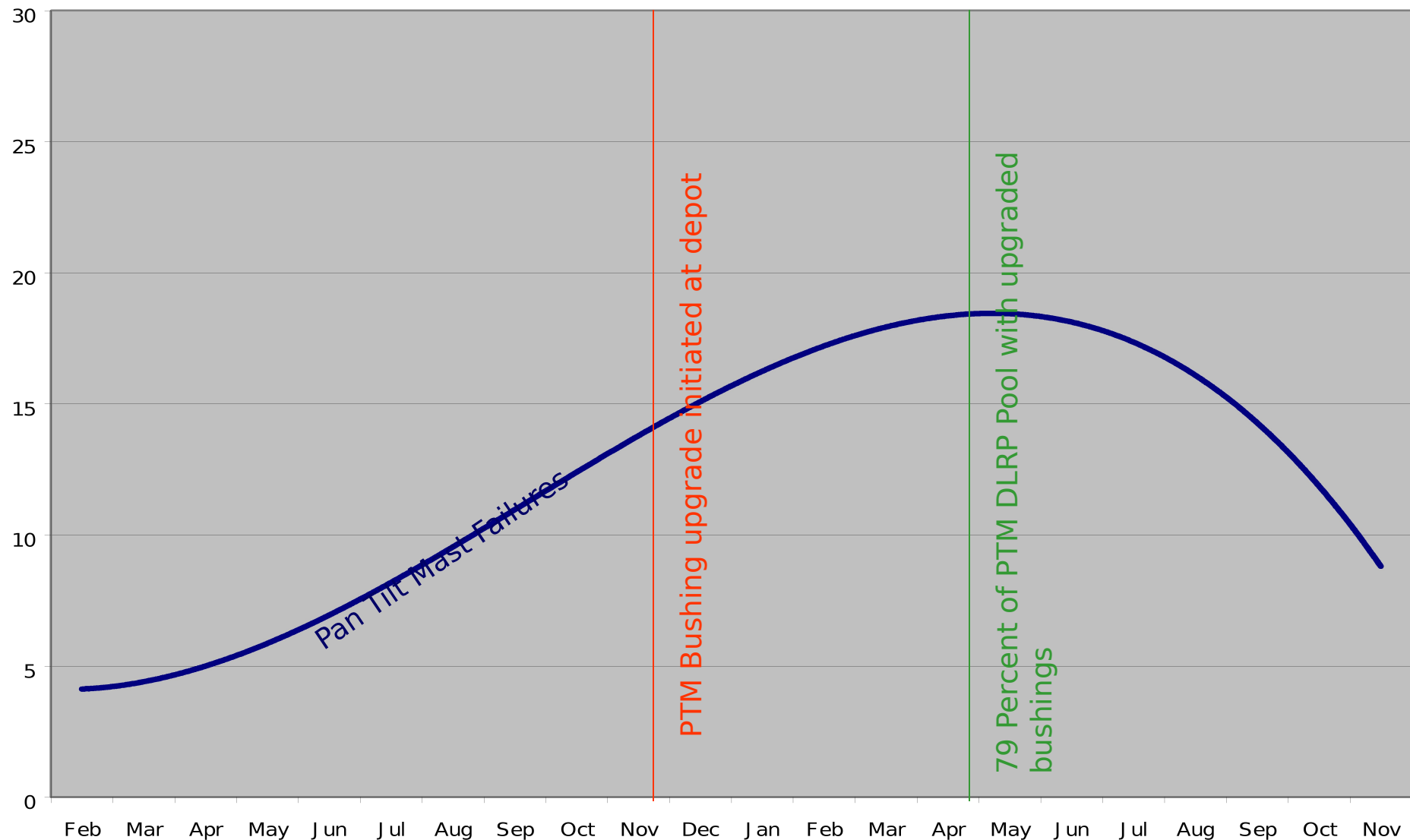


# **MK 2 PTM Failure Trend**

- **Identified a common failure in the Pan/Tilt Mast in late 2006.**
  - **Majority returned to the Depot had mechanisms that were jammed and unusable.**
  - **Analysis - flange from a small bushing supporting the worm gear was failing from vibration causing the flange to break.**
  - **Design modified in Nov 2006.**
  - **Implemented on new production.**
  - **Failed Pan/Tilt Masts upgraded during repair.**
- **In the five month period following the implementation of this design change, 79 % of the Pan/Tilt Mast DLRP Population had been upgraded.**
- **Following the implementation of this design change, Pan/Tilt Mast failures dropped dramatically.**



# MK 2 PTM Failure Trend

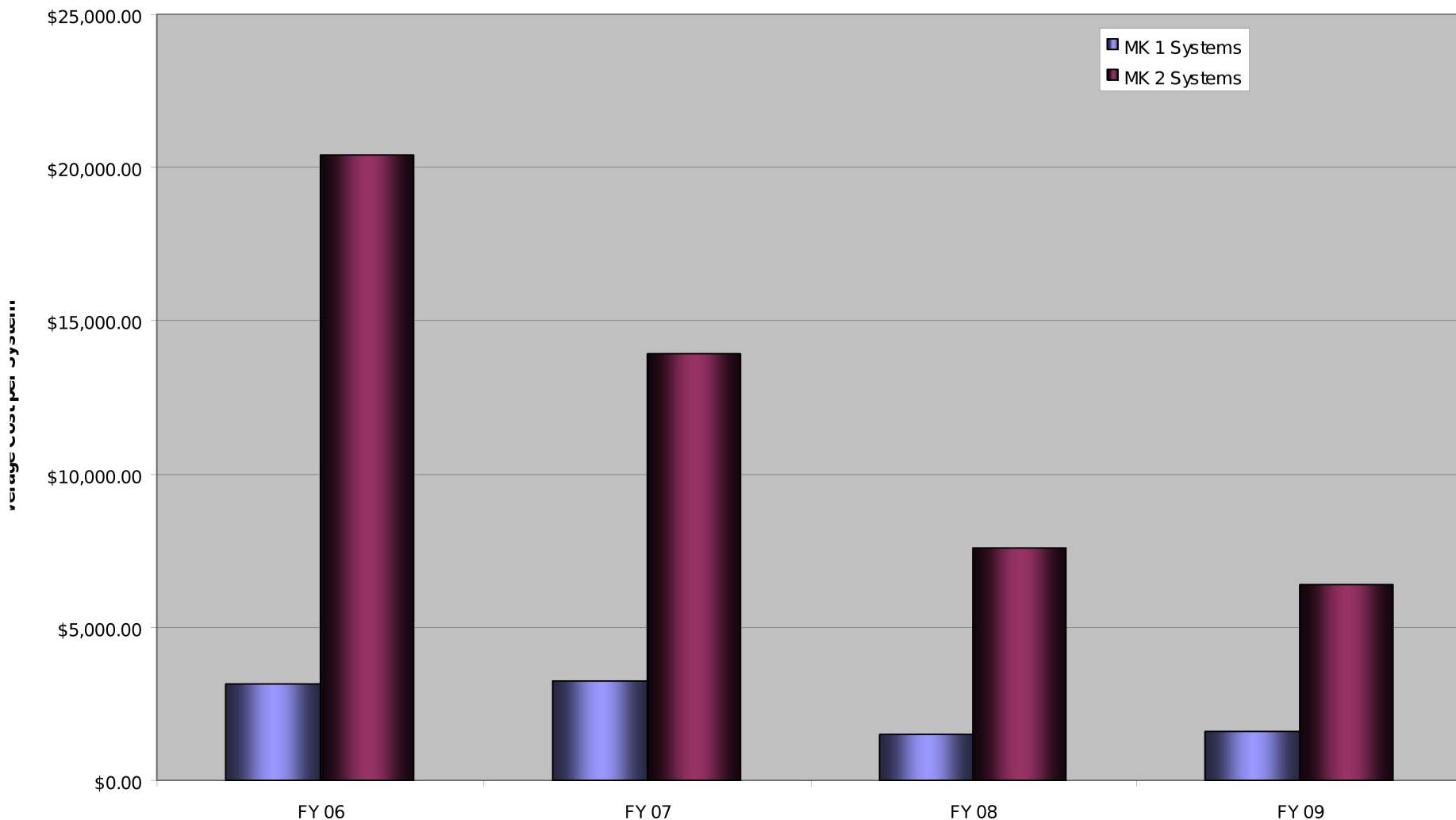


Bottom Line

Rapid Decision Making



# MTRS Annual Repair Costs



Bottom Line

Reduction in Total Ownership Cost



# Questions